

Translation

PATENT COOPERATION TREATY

PCT/JP2004/004435



PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY  
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference JJP04-9410	FOR FURTHER ACTION	See Form PCT/IPEA/416
International application No. PCT/JP2004/004435	International filing date (day/month/year) 29 March 2004 (29.03.2004)	Priority date (day/month/year) 31 March 2003 (31.03.2003)
International Patent Classification (IPC) or national classification and IPC G02F 1/13357, 1/1333		
Applicant SANYO ELECTRIC CO., LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
  - a. ☒ (sent to the applicant and to the International Bureau) a total of 6 sheets, as follows:
    - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
    - ☒ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
  - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) \_\_\_\_\_, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

Date of submission of the demand 27 October 2004 (27.10.2004)	Date of completion of this report 25 April 2005 (25.04.2005)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

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## Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language \_\_\_\_\_, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
  - ☐ publication of the international application (under Rule 12.4)
  - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:  
 pages \_\_\_\_\_ 1-3, 5, 7-10, 12-14 \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_ 4, 6, 11 \_\_\_\_\_ received by this Authority on 26 January 2005 (26.01.2005)  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the claims:  
 pages \_\_\_\_\_ 2-7 \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_, as amended (together with any statement) under Article 19  
 pages\* \_\_\_\_\_ 1 \_\_\_\_\_ received by this Authority on 26 January 2005 (26.01.2005)  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☒ the drawings:  
 pages \_\_\_\_\_ 2-9 \_\_\_\_\_, as originally filed/furnished  
 pages\* \_\_\_\_\_ 1 \_\_\_\_\_ received by this Authority on 26 January 2005 (26.01.2005)  
 pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/figs \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☒ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☒ the drawings, sheets/figs \_\_\_\_\_ 2 \_\_\_\_\_
- ☐ the sequence listing (*specify*): \_\_\_\_\_
- ☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)

Claims

1-7

YES

Claims

NO

Inventive step (IS)

Claims

1-7

YES

Claims

NO

Industrial applicability (IA)

Claims

1-7

YES

Claims

NO

## 2. Citations and explanations (Rule 70.7)

Document 1: JP, 9-138387, A (Hitachi, Ltd.), 27 May, 1997, Column 23, line 27 to column 25, line 19; Figs 26 to 27 & US, 5838412, A & KR, 266356, B & TW, 453449, Y  
 Document 2: JP, 9-138388, A (Hitachi, Ltd.), 27 May, 1997, Column 22, line 7 to column 23, line 49; Figs. 26 and 27 (Family: none)  
 Document 3: JP, 11-295713, A (Hitachi, Ltd.), 27, Column 10, line 29 to column 11, line 6; Figs. 12 and 13 (Family: none)  
 Document 4: JP, 2000-105543, A (Toshiba Corp.), 08 October, 1999, Full text; all drawings & US, 6466195, B1 & KR, 2000/012094, A  
 Document 5: JP, 8-114802, A (Sharp. Corp.), 07 May, 1996, Par. No. 0039, Fig. 11 (Family: none)

The inventions of amended claims 1-7 are not described in any of the documents cited in the ISR, and would not be obvious to a person skilled in the art.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.  
Continuation of Box V:

FIG. 2(B) newly added in the amendment is not included in the drawings originally filed with this application, and is found not to be obvious from the drawings originally filed with this application.